

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Ray Westall

3a. Area Code & Phone No.
505-677-2370

3. ADDRESS OF OPERATOR
P.O. Box 4, Loco Hills, New Mexico 88255 D.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
2260 FNL & 1750 FEL
At proposed prod. zone
1700/E
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
4 miles North East of Carlsbad

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 380

16. NO. OF ACRES IN LEASE
160

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
330

19. PROPOSED DEPTH
5100

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3215 Gr.

22. APPROX. DATE WORK WILL START*
June 15, 1990

PROPOSED CASING AND CEMENTING PROGRAM

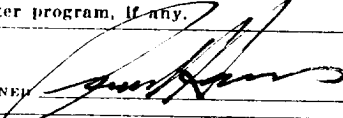
HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	48	* L-8 #40	8 rd	500	750 circulated
12 1/4	8 5/8	36	API J	8 rd	2450	1000 circulated
7 7/8	5 1/2	15.5	API J	8 rd	5100	800 est top 2000'

We propose to drill a straight hole to 5100' and complete as an oil producer in the Delaware formation.

Attached is a location and acreage dedication plat, a proposed well plan, and a surface use plan.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED  TITLE Geologist DATE 5/4/90
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE 6-1-90
CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator RAY WESTALL		Lease Myrtle Myra Federal 9		Well No. 4
Unit Letter G	Section 9	Township 21 South	Range 27 East	County Eddy County, N.M.

Actual Footage Location of Well:

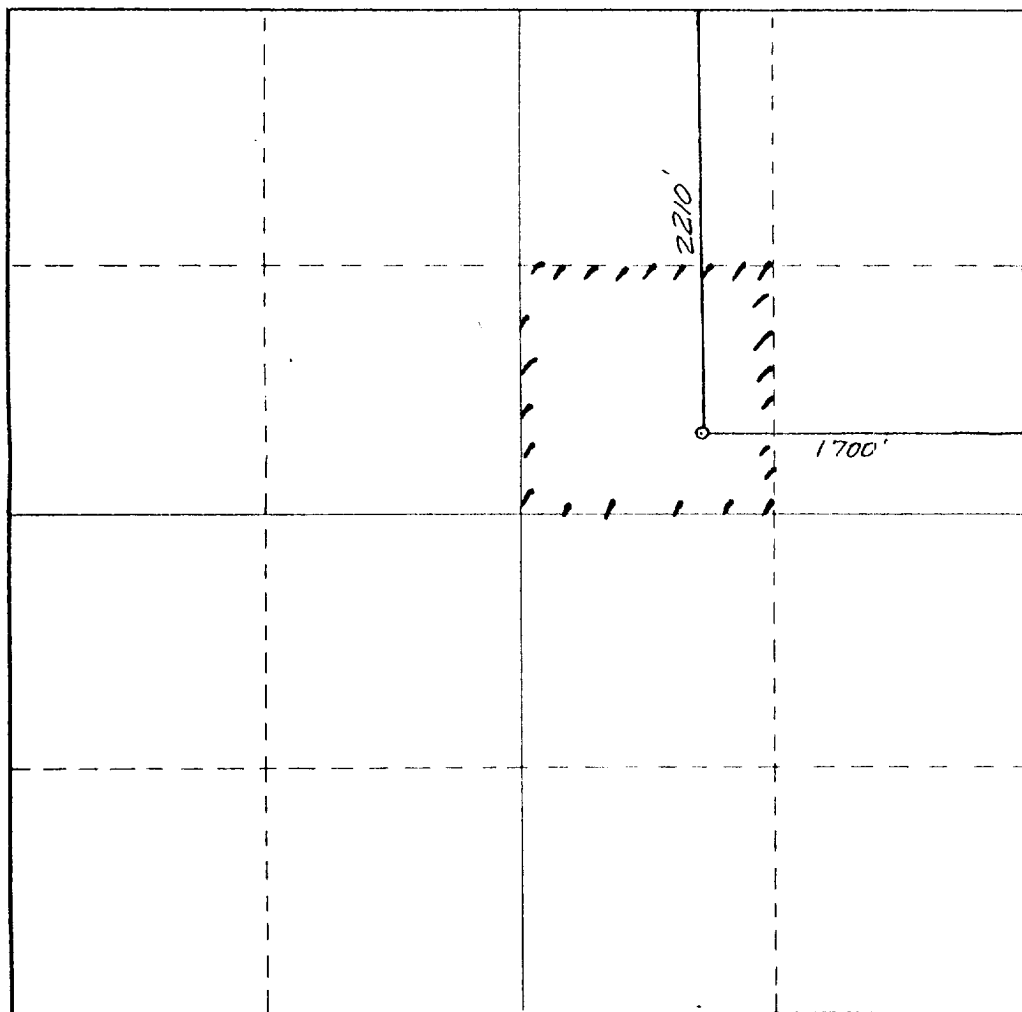
2210	feet from the	North	line and	1700	feet from the	East	line
Ground Level Elev. 3215.	Producing Formation DELWAKE		Pool CATHERATA		Dedicated Acreage: 40		Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Geologist

Ray Westall
Company
6/4/90
Date

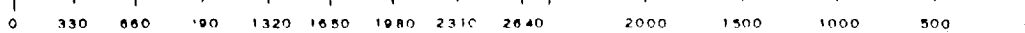
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed
May 28, 1990

Registered Professional Engineer and/or Land Surveyor

Dan R. Reddy

Certificate No.
NM PE&LS NO. 5412



APPLICATION FOR PERMIT TO DRILL

Ray Westall
Myrtle Myra Federal 9 #4
NM-18727

1. The estimated tops of important geologic markers are as follows:

<u>ZONE</u>	<u>TOP</u>	<u>CONTENT</u>
Alluvium	0-380	Intermittent Surface Water
Rustler Anhy.	380	---
Yates	580	---
Capitan Reef	950	Water
Delaware Sand	2550	Oil

2. The estimated depths at which Water, Oil or Gas will be encountered are shown above in No. 1.
3. A drawing of an API 10" 5000# Blowout Preventer is attached. The BOP will be installed on the 8 5/8" casing.
4. The proposed casing program: see Form 3160-3.
5. The proposed mud program is as follows:

0-500	Fresh Water & Native Mud
500-2450	Fresh Water
2450-5100	Cut Brine
6. The proposed logging program includes: GR/CNL/FDC/DLL.
A temp survey will be run to determine the top of cement on each casing string where cement is not circulated.
7. No abnormal pressure or temperatures are expected to be encountered in this well.
8. The anticipated starting date is June 15, 1990, with a duration of approximately 15 days.

SURFACE USE PLAN

Ray Westall

Myrtle Myra Federal 9 #4

The following is the required information concerning the possible effects which the proposed drilling of this well may have on the environment, existing road sites, and surrounding acreage. A copy will be posted on the derrick floor so all contractors and sub-contractors will be aware of all items of this plan.

1. EXISTING ROADS

A. Exhibit "A" is a portion of an Eddy County road map showing existing roads. Directions to the location are as follows: From Carlsbad travel 3 miles North on Canal street. Turn east on Eddy County 600 Avalon Gas plant road, for 2 miles. Location is on north side of road.

2. ACCESS ROADS TO BE CONSTRUCTED

No new road will be required

3. LOCATION OF EXISTING WELLS

See exhibit "C"

4. LOCATION OF PROPOSED FACILITIES IF WELL IS PRODUCTIVE

Production facilities will be located on drill pad.

5. WATER SUPPLY

Water will be trucked in.

6. SOURCE OF CONSTRUCTION MATERIALS

No additional materials will be needed to construct pad.

7. METHODS OF HANDLING WASTE DISPOSAL

Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. Any produced water will be collected and hauled to an approved disposal system.

8. ANCILLARY FACILITIES

None

9. PLANS FOR RESTORATION OF SURFACE

Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment.

10. WELLSITE LAYOUT

See exhibit "D"

11. SURFACE OWNERSHIP

Federal

12. OTHER INFORMATION

Clearance is recommended by the attached Archaeological Survey conducted February 22, 1990 by Archaeological Survey Consultants.

13. OPERATOR'S REPRESENTATIVE AND CERTIFICATION

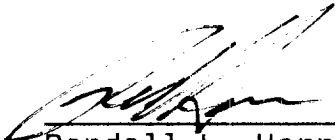
Field personnel who can be contacted concerning compliance of this surface use plan are as follows:

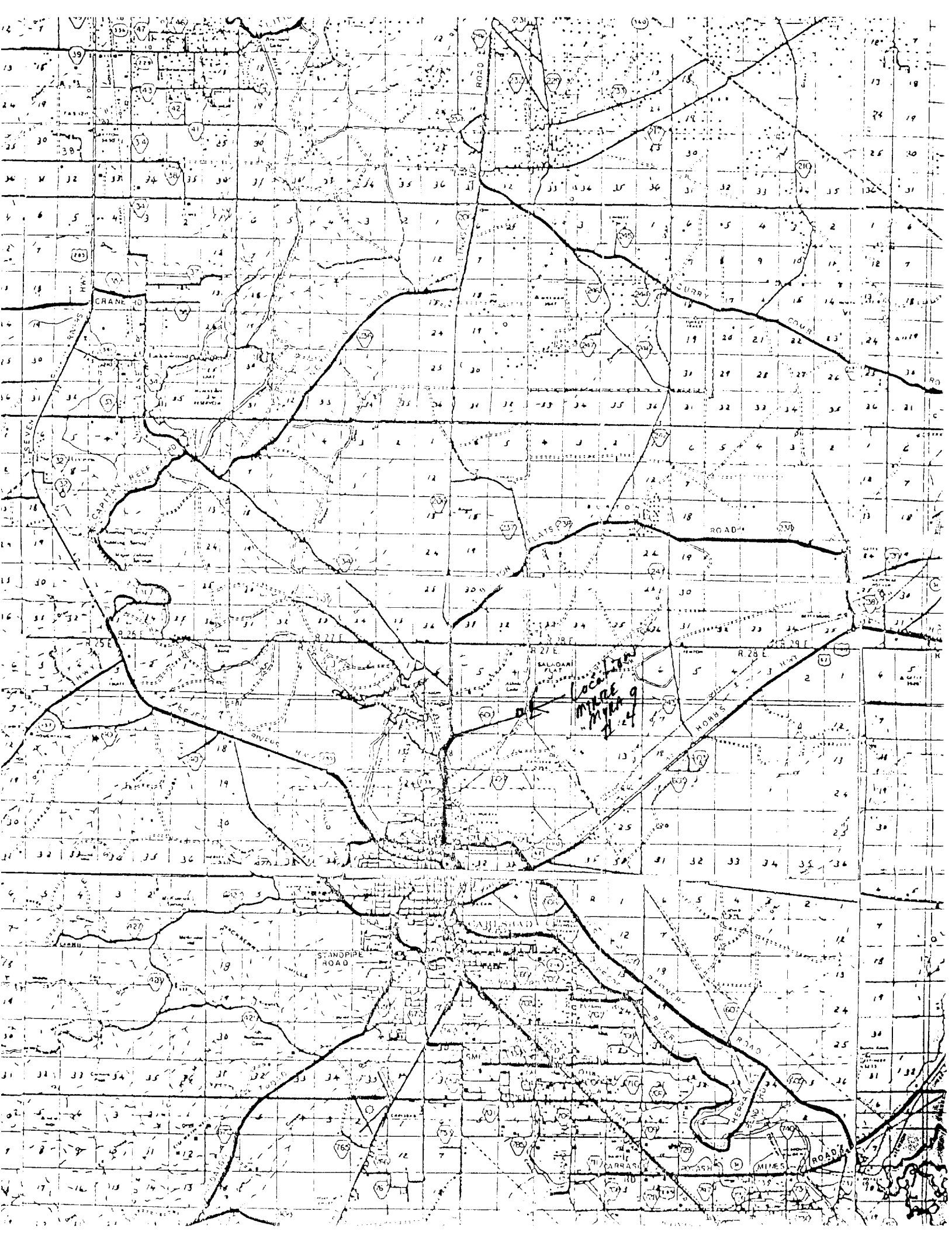
Ray Westall
PO Box 4, Loco Hills
505-677-2370

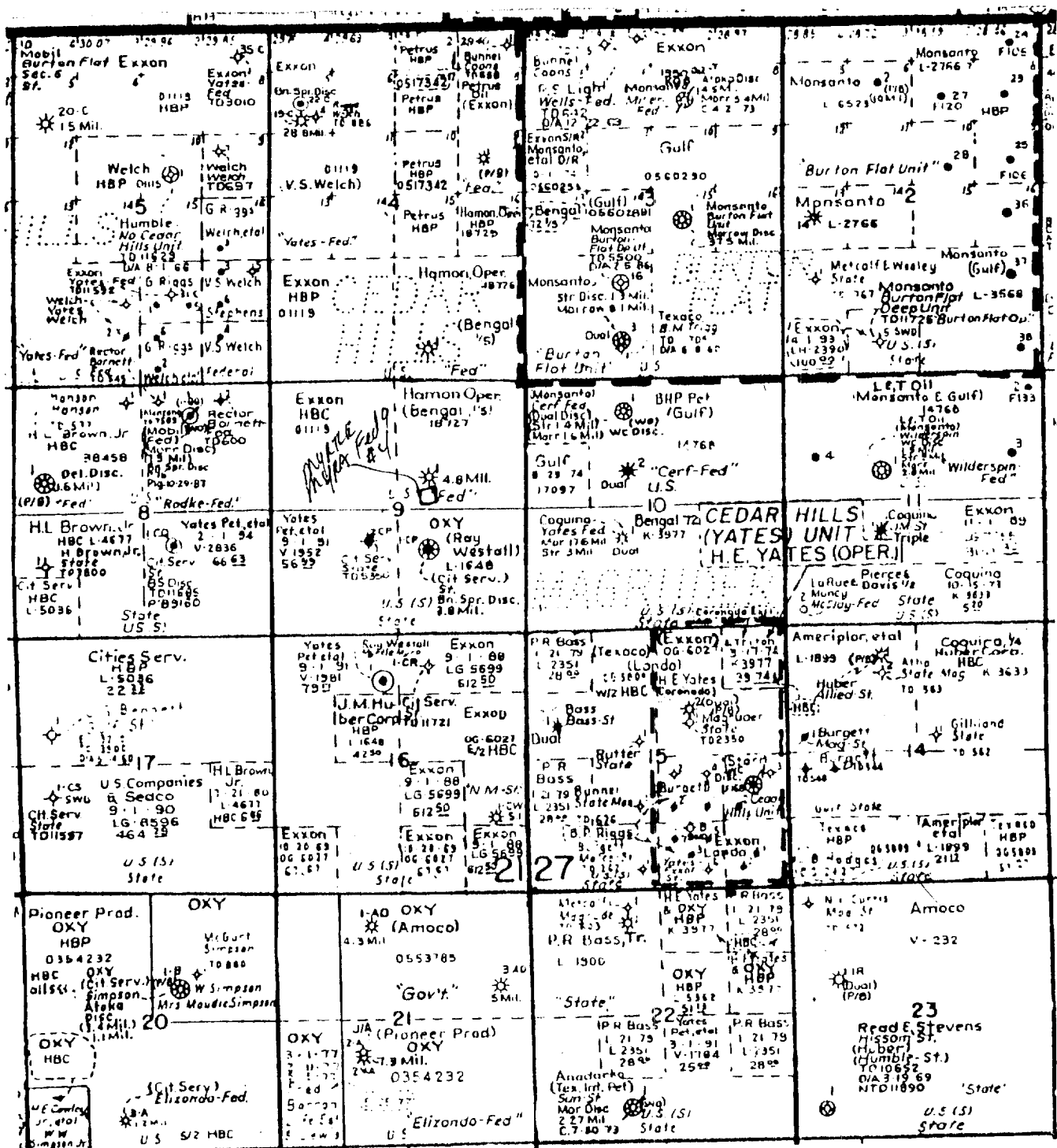
Randall Harris
PO Box 4, Loco Hills
505-677-2370/365-2237

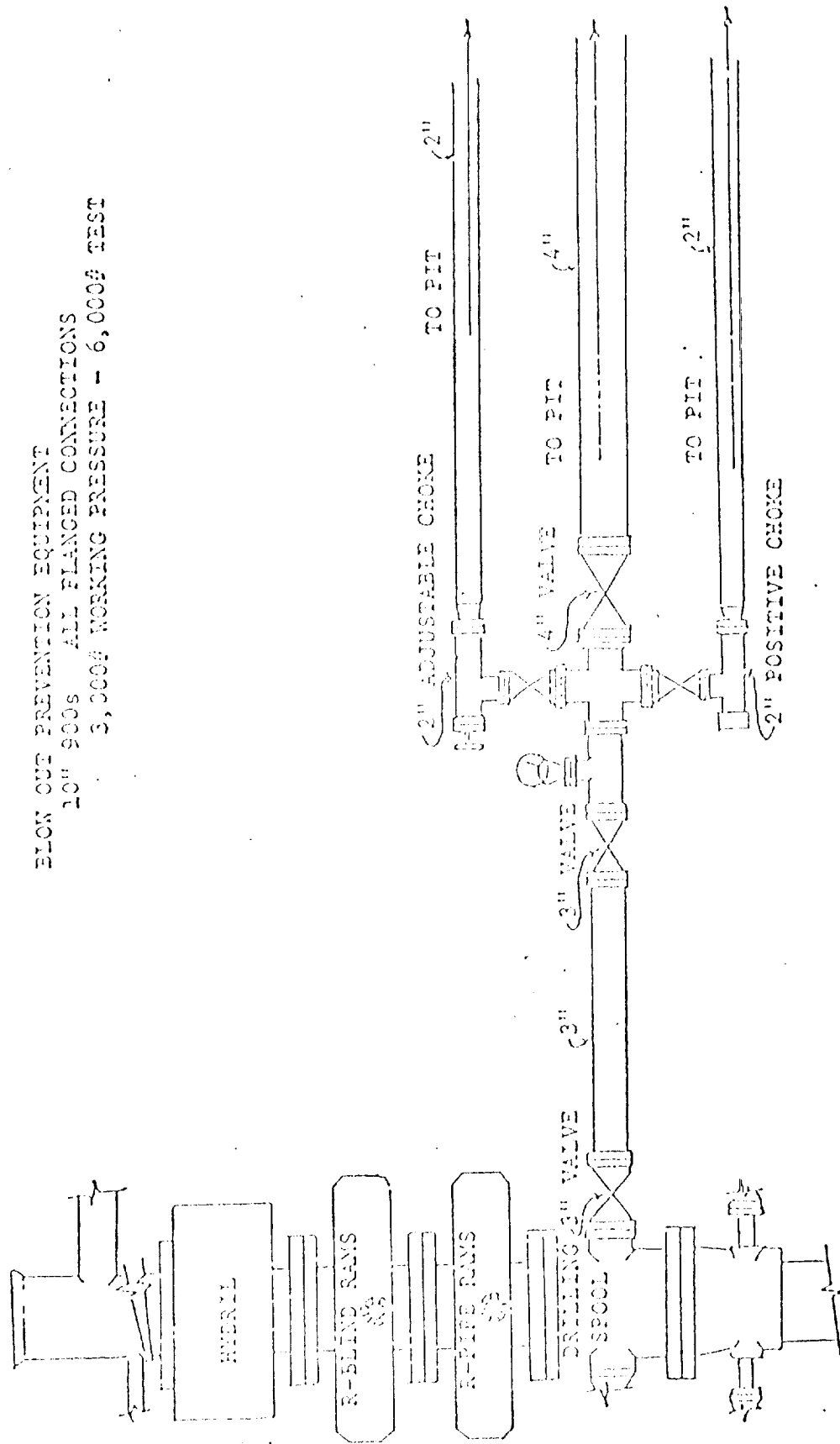
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Ray Westall and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

5/4/90
Date


Randall L. Harris



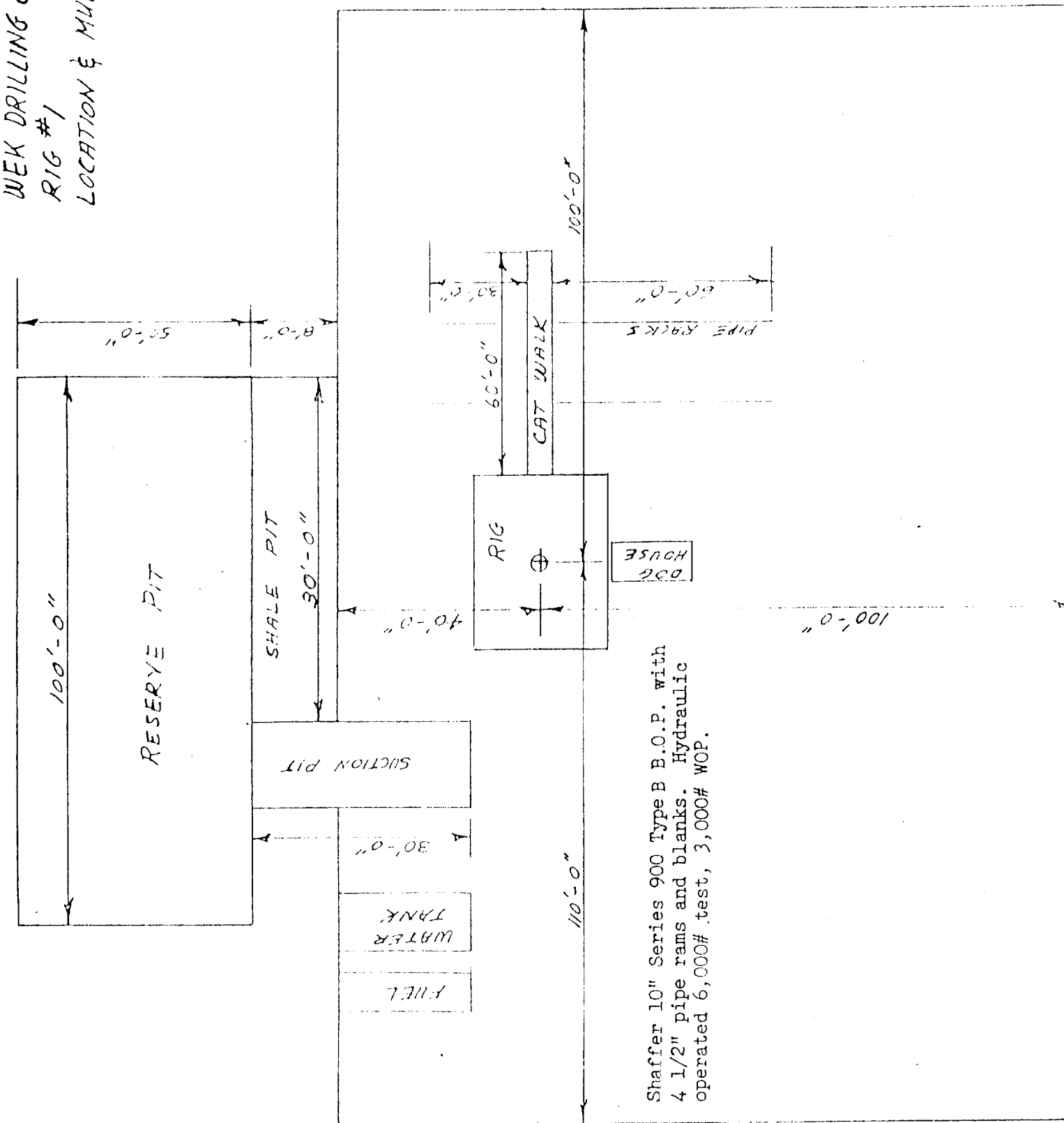




BLOW OUT PREVENTION EQUIPMENT
 10" 900s ALL FLANGED CONNECTIONS
 3,000# WORKING PRESSURE - 6,000# TEST

ATTACHMENT TO FORM C-101

WEK DRILLING CO., INC.
RIG #1
LOCATION & MUD PIT SPECS.



Shaffer 10" Series 900 Type B B.O.P. with
4 1/2" pipe rams and blanks. Hydraulic
operated 6,000# test, 3,000# WOP.

ARCHAEOLOGICAL SURVEY CONSULTANTS

CULTURAL RESOURCES EXAMINATION

on lands administered by the
Department of the Interior
Bureau of Land Management
Roswell District, New Mexico

ASC PERMIT NO.: 18-2920-90-E
ASC Job No.: 90-11; Ray West-
tall Myrtle Myra Fed. 9 Well
No. 4; T21S, R27E, Section 9

1. ABSTRACT: intensive archaeological survey of the Ray Westall Myrtle Myra Federal 9 Well No. 4 (450 ft. N/S x 500 ft. E/W), with a total **federal land surface of 5.17 acres** inspected for cultural remains. No new access road is involved, since the well pad straddles an extant caliche road.

Archaeological survey of the Ray Westall Myrtle Myra Federal 9 Well No. 4 **did not reveal** any cultural resources. Therefore, archaeological **clearance** for the Myrtle Myra Federal 9 Well No. 4 is **recommended**.

2. WELL PAD LOCATION: T21S, R27E, Section 9, SW¼NE¼ (2260 FNL, 1750 FEL). Eddy County, New Mexico.

MAP REFERENCE: U.S.G.S. 7.5 minute series, CARLSBAD EAST, NEW MEXICO, 1985.

LAND STATUS: BLM, Roswell District, Carlsbad Resource Area, New Mexico.

3. PROJECT DESCRIPTION: well pad (450 ft. N/S x 500 ft. E/W), with a total **federal land surface of 5.17 acres** inspected for cultural remains. No new access road is involved, since the well pad straddles an extant caliche road.

TOPOGRAPHY: situated on the NW slope of the Alacran Hills, in terrain with a gradual slope to the NW, low relief, and relatively flat surface. Small gravel and caliche float, as well as indurated caliche, are characteristic. A NW trending, shallow wash is to the W/NW, outside of the well pad. Low coppice and psuedo-coppice dunes occur, north of the well pad centre. **Soils:** Simona-Bippus complex, to the SE of an interface with Tonuco-Berino loamy fine sands. **Permanent Water:** Lake Avalon, ca. 2.7 miles W. **Potential Water:** Alkali Lake, ca. 0.9 miles N. **Elevation:** 3209 ft. to 3220 ft. **Slope:** ca. 0.96%. **Aspect:** generally NW. **Lithic Resources:** Not available in project vicinity. **Vegetation:** Grassland Environment, Scrub-grass scrub disclimax community.

4. EXAMINATION PROCEDURE: straight and zig-zag transects, spaced no greater than 15 metres apart. Ca. 1.0 work hours on ground. Well pad centre & corners staked by client representative. **Visibility:** ca. 65% to 85%. Weather, sunny.

5. FINDINGS: BLM records (Ruebelmann, 2/09/1990) do not indicate the recording of archaeological sites in Section 9 (T21S, R27E).

Archaeological survey of the Ray Westall Myrtle Myra Federal 9 Well No. 4 **did not reveal** any cultural resources.

6. RECOMMENDATIONS: archaeological **clearance** for the Myrtle Myra Federal 9 Well No. 4 is **recommended**.

Date of Examination: February 22, 1990

Project Archaeologist: D.M. Griffiths

Principal Investigator: [Signature]

